

To: Goldmann, Elizabeth[Goldmann.Elizabeth@epa.gov]
From: Leidy, Robert
Sent: Mon 10/5/2015 7:13:25 PM
Subject: FW: Emailing: ju-rosemont additional hydrology and species information
stream base flow and water temperature memo 5 October.doc

-----Original Message-----

From: Brian Powell [mailto:Brian.Powell@pima.gov]
Sent: Monday, October 05, 2015 11:38 AM
To: Leidy, Robert
Cc: Julia Fonseca; Ian Murray
Subject: RE: Emailing: ju-rosemont additional hydrology and species information

Hello Rob-
Please see the attached memorandum from Ian Murray.

Please let us know if you would like any additional information.

Brian Powell
Program Coordinator
Pima County Office of Sustainability and Conservation
201 N. Stone Ave, 6th Floor, RM 629
Tucson, AZ 85701
P: 520.724.6555
F: 520.724.9491
E: brian.powell@pima.gov

> -----Original Message-----

> From: Leidy, Robert [mailto:Leidy.Robert@epa.gov]
> Sent: Wednesday, September 23, 2015 12:26 PM
> To: Brian Powell
> Cc: Julia Fonseca
> Subject: RE: Emailing: ju-rosemont additional hydrology and species
> information
>
> Thanks Brian,
>
> This is helpful. I am also curious if you have any information on the
> relationship between declining baseflow and thermal sensitivity for
> either the Cienega Basin or other streams in AZ. We have water
> temperature data for Marsh Station and I am wondering how this data
> might or might not be useful in the context of PIMA's
> hydrology/species report and findings, especially in terms of the potential of mine-related changes in
water quality.
>
> Best,
>
> Rob
>
>
>
> _____
> Robert A. Leidy, Ph.D.
> Ecologist/Enforcement Officer

> U.S. Environmental Protection Agency
> Wetlands Office (WTR-2-4)
> 75 Hawthorne Street
> San Francisco, CA 94105
> (415) 972-3463
>
>
>
> -----Original Message-----
> From: Brian Powell [mailto:Brian.Powell@pima.gov]
> Sent: Wednesday, September 23, 2015 12:12 PM
> To: Leidy, Robert
> Cc: Julia Fonseca
> Subject: RE: Emailing: ju-rosemont additional hydrology and species
> information
>
> Hello Rob-
> Julia asked me to respond to your inquiry.
>
> I am assuming that you are referring to the small pool that is on the
> north side of Cienega Creek (against the rock outcrop), just a few
> meters above the confluence with Davidson. The reason it was not
> included was because of its smaller size (relative to other pools) and
> because the other pools have historically been more directly connected to perennial stretches of the
> creek.
> Certainly the site at the Davidson confluence could be an important
> periodic site for chub in some years and it probably should have been
> considered in our analysis.
>
>
> Brian Powell
> Program Coordinator
> Pima County Office of Sustainability and Conservation
> 201 N. Stone Ave, 6th Floor, RM 629
> Tucson, AZ 85701
> P: 520.724.6555
> F: 520.724.9491
> E: brian.powell@pima.gov
>
>
>
> -----Original Message-----
> From: Leidy, Robert [mailto:Leidy.Robert@epa.gov]
> Sent: Wednesday, September 23, 2015 11:22 AM
> To: Julia Fonseca
> Subject: RE: Emailing: ju-rosemont additional hydrology and species
> information
>
>
> Julia,
>
>
> Question: Figure 11 of the report depicts the locations of Gila chub
> as upstream from the confluence of Davidson Canyon with Cienega
> Creek. I've seen Gila chub in the large pool in Cienega Creek just
> upstream from the confluence of davidson canyon on two different
> occasions (years). Is there a reason this pool is omitted? Is it
> because the pool is not "permanent" in all years?
>
>

> > Thanks,
> >
> > Rob
> >
> >
> >
> > _____
> > Robert A. Leidy, Ph.D.
> > Ecologist/Enforcement Officer
> > U.S. Environmental Protection Agency Wetlands Office (WTR-2-4)
> > 75 Hawthorne Street
> > San Francisco, CA 94105
> > (415) 972-3463
> >
> >
> >
> > -----Original Message-----
> > From: Julia Fonseca [mailto:Julia.Fonseca@pima.gov]
> > Sent: Wednesday, September 23, 2015 9:13 AM
> > To: Leidy, Robert
> > Subject: Emailing: ju-rosemont additional hydrology and species information
> >
> > Hi, Rob,
> >
> > Certainly. Here is the report as transmitted to Forest Service for NEPA/ESA
> > consultation and as transmitted to ADEQ for the certification process. I am
> > also enclosing additional correspondence with ADEQ regarding the
> > certification, in which we took issue with some of Rosemont's
> > interpretations
> > of source waters for Davidson base flows. This includes a statement by Dr.
> > Chris Eastoe, who is knowledgeable about isotopes and recharge in this area.
> > There is additional ongoing work on isotopes being conducted by others at
> > UA.
> >
> >
> > Regards,
> >
> >
> >
> > Julia Fonseca
> > Environmental Planning Manager
> >
> > Pima County Office of Sustainability and Conservation
> > 201 N. Stone, 6th floor
> > Tucson, AZ 85701
> > (520) 724-6460
> > Julia.Fonseca@pima.gov
> >
> > Sonoran Desert Conservation Plan
> > Lower Santa Cruz Living River Project
> >
> >
> >
> >
> >
> >
> > Your message is ready to be sent with the following file or link attachments:

> >
> > ju-rosemont additional hydrology and species information
> >
> >
> > Note: To protect against computer viruses, e-mail programs may prevent
> > sending or receiving certain types of file attachments. Check your e-mail
> > security settings to determine how attachments are handled.